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|---|-------------|--|--|------------|---|---------|---------|--|---------|---------|-------------|------------|
| Exhibit P-40, Budget Item Justification Sheet | | | | | | | | Date: February 2004 | | | | |
| Appropriation / Budget Activity/Serial No: Procurement, Marine Corps (1109) / Communications and Electronics Equipment (4) | | | | | | | | P-1 Item Nomenclature: Multiple Role Radar System | | | | |
| Program Elements: 0206118M Tactical Air Control Systems (Marine Corps) | | | | Code: A | Other Related Program Elements: 0206118M Tactical Air Control Sysytems | | | | | | | |
| | Prior Years | | | FY 2003 | FY 2004 | FY 2005 | FY 2006 | FY 2007 | FY 2008 | FY 2009 | To Complete | Total Prog |
| Proc Qty | | | | | | | | | | | | |
| Gross Cost | 0.0 | | | 0.0 | 1.6 | 2.3 | 3.4 | 62.3 | 46.4 | 47.6 | Cont | Cont |
| Less PY Adv Proc | | | | | | | | | | | | |
| Plus CY Adv Proc | | | | | | | | | | | | |
| Net Proc (P-1) | 0.0 | | | 0.0 | 1.6 | 2.3 | 3.4 | 62.3 | 46.4 | 47.6 | Cont | Cont |
| Initial Spares | 0.0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 4.1 | 4.7 | Cont | Cont |
| Total Proc Cost | 0.0 | | | 0.0 | 1.6 | 2.3 | 3.4 | 64.4 | 50.5 | 52.3 | Cont | Cont |
| Flyaway U/C | | | | | | | | | | | | |
| Wpn Sys Proc U/C | | | | | | | | | | | | |

Multiple Role Radar System: The MRRS will provide lightweight, expeditionary, three-dimensional (3D) radar capable of detecting Cruise Missiles (CMs), fixed and rotary winged aircraft, Unmanned Aerial Vehicles (UAVs) and an enhanced Combat Identification (CID) capability. System will augment the AN/TPS-59 sensor coverage and will be integrated into the Navy's Cooperative Engagement Capability (CEC) and the Marine Corps Composite Tracking Network (CTN). Additionally, the system shall provide Air Traffic Control (ATC) with a real-time display of all air activity within the assigned area of responsibility and will support the situational awareness and cueing for Stinger, Avenger and CLAWS. The system must be rugged enough to support a wide range of tactical operations in all types of weather and terrain conditions.

Short/Medium Range Air Defense Radars - The AN/TPS-63 is the Marine Corps' two-dimensional, medium range, tactical radar assigned to the Marine Air Command Squadron (MACS) as a gap-filler or early warning system for early deployment into the warfighting area. The AN/MPQ-62 Continuous Wave Acquisition Radar provides a lightweight, mobile, flexible target acquisition and target cueing system to the MACS and Short Range Air Defense (SHORAD) Platforms. The Continuous Wave Acquisition Radar (CWAR) maintains a simultaneous 360 degree low altitude area air surveillance on both fixed and rotary wing air breathing targets, Unmanned Aerial Vehicles (UAVs), and high-speed cruise missiles. Short/Medium Range Air Defense Radar mods provide the necessary follow-on support and enhancements to ensure USMC viability and relevance in the warfighting area.

Ground Weapons Locating Radar (Formerly AN/TPQ-46A): The GWLR is an expeditionary radar that can acquire threat indirect fire systems including mortars, artillery, rocket and missile systems at greater ranges than the current radar system. The principle functions of the system will be to detect, track, classify and accurately determine the origin of enemy weapons platforms. The GWLR will also be capable of registering and adjusting friendly indirect fire while simultaneously maintaining hostile surveillance.

